Unit Plan Plate Tectonics

Week 1:

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| Day 1 | Day 2 | Day 3 | Day 4 | Day5 |
| Title: What is beneath your feet? | Title: What is a Plate? | Title: Who is Wegner and why should you care? | Title: Is the Atlantic Ocean growing? | Title: Sea floor spreading lab |
| Activity:  \*Discussion about the Earth’s structure  \*Web quest activity about the Earth’s composition temp  \*Discussion of what the students learned | Activity:  \* Discover plate tectonics  \*Discover plates  \*Map interpretation exercise  \*\*Relate to structure of the earth | Activity:  \* Read as a class teaching reading strategy like think aloud and asking questions while reading | Activity:  \*Check point quiz  \* Introduce sea floor spreading evidence of plate tectonics  \*Animations and notes on topic | Activity:  \*Quick video  \*Inquiry investigation activity  \*Closing questions about sea-floor spreading and how it affects the ocean floor |
| HW: | HW: | HW:  Study Day 1, 2, and 3 for checkpoint quiz | HW: | HW:  HW sheet |
| Needs: Web quest wrkst, lap tops, colored pencils | Needs: Animations, plate tectonic movie | Needs: Article on plate tectonics, g.o., highlighters sticky notes, reading strategy clue sheet | Needs:  Animation videos, power point slides | Needs: Paper, markers, rulers, lab sheet, and HW sheet |

Week 2:

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| Day 6 | Day 7 | Day 8 | Day 9 | Day 10 |
| Title: Where do mountains and valleys come from? | Title:  How does the inside of the earth move? | Title:  (Convection currents cont.) | Title:  How does the inside of the earth move? | Title:  What does plate tectonics have to do with earthquakes, volcanoes, and islands? |
| Activity:  \*\*Animations and notes on plate tectonics  \*\*Graham cracker activity | Activity:  \*\*Introduce convection currents  \*\* Lab activity (experimental procedure hypotheses, materials etc.) | Activity:  Inquiry activity experiment carried out | Activity:  \*Discuss results from yesterday’s experiment  \*Convection demonstration  \*Discussion about convection currents | Activity:   * Introduce Jigsaw activity * Expert groups read, discuss and fill out G.O. |
| HW:  Questions on plate boundaries | HW: | HW:  Finish lab questions for home work | HW:  Draw convection model | HW: Finish individual section of G.O and prepare for expert groups |
| Needs: Sheet for graham cracker activity, graham crackers, plastic knives, frosting, plates and cups of water | Needs: oil, water, molasses, conditioner, vinegar, beakers, hot plates, thermometer and ice | Needs: oil, water, molasses, conditioner, vinegar, beakers, hot plates, thermometer and ice | Needs: water, hot plate, beakers, glitter | Needs:  4 articles and graphic organizer |

Week 3:

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| Day 11 | Day 12 | Day 13 |
| Title: What does plate tectonics  have to do with volcanoes,  earthquakes and islands? | Title: Review, Review  and Review | Title:  Show me what you know! |
| Activity:  \*Meet in expert groups  \*Break into jigsaw groups where  each expert teaches the other  group members about what they  learned in their article | Activity:  \*Class review | Activity:  Unit Assessment |
| HW:  Write 2-3 paragraphs based on  The four articles. The writing topic  Is on the writing rubric | HW:  Study for the unit  assessment | HW: |
| Needs:  Articles, g.o., and writing rubric | Needs:  Review game | Needs:  Assessment |